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DRAFTSMAN	

Patent Application for:
 Selection Of Coding Parameters Based
 On Spectral Content Of The Speech Signal
 Inventor: Yang Gao and Huan-yu Su
 Serial No. 09/783,822

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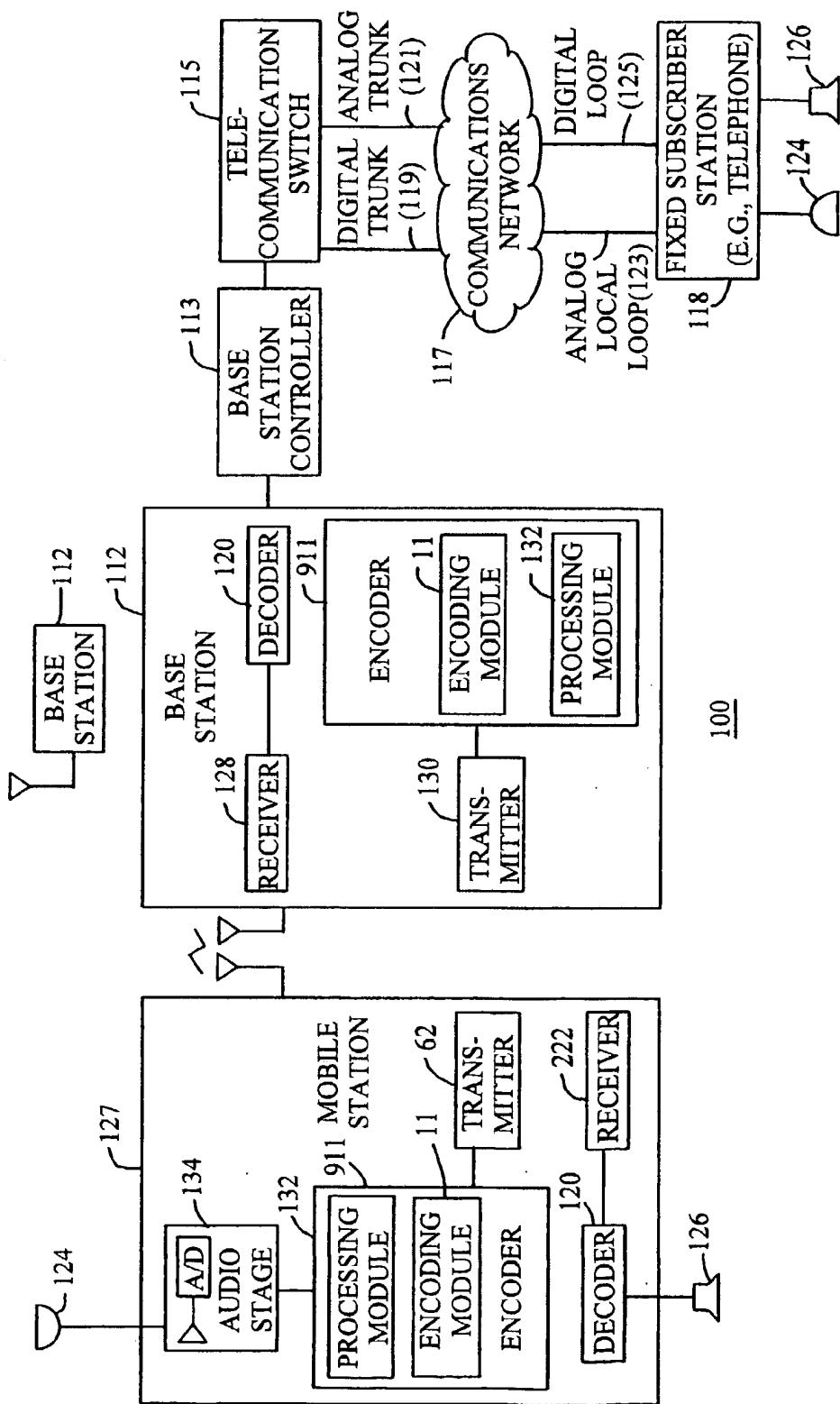


FIG. 1

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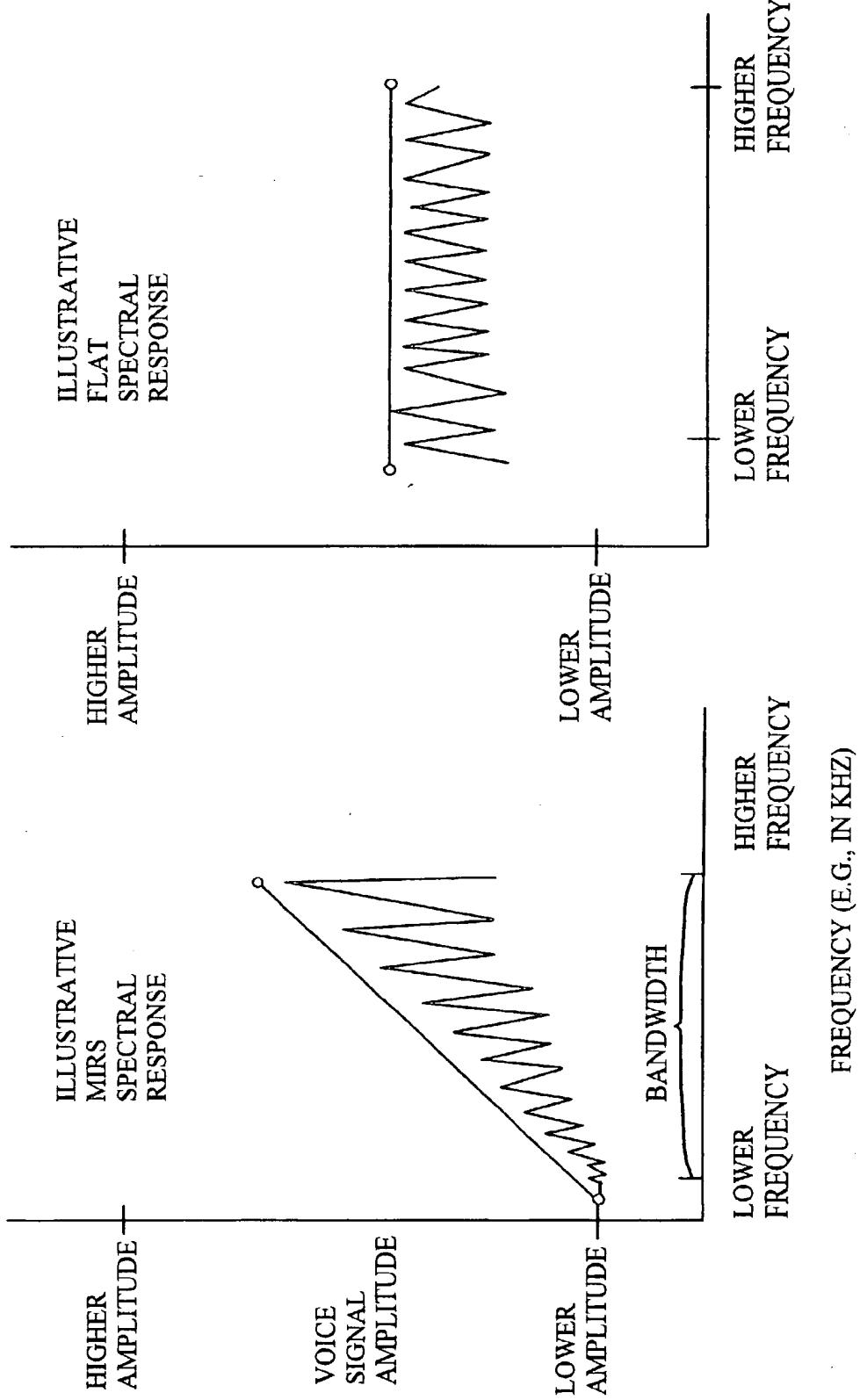


FIG. 2A

FIG. 2B

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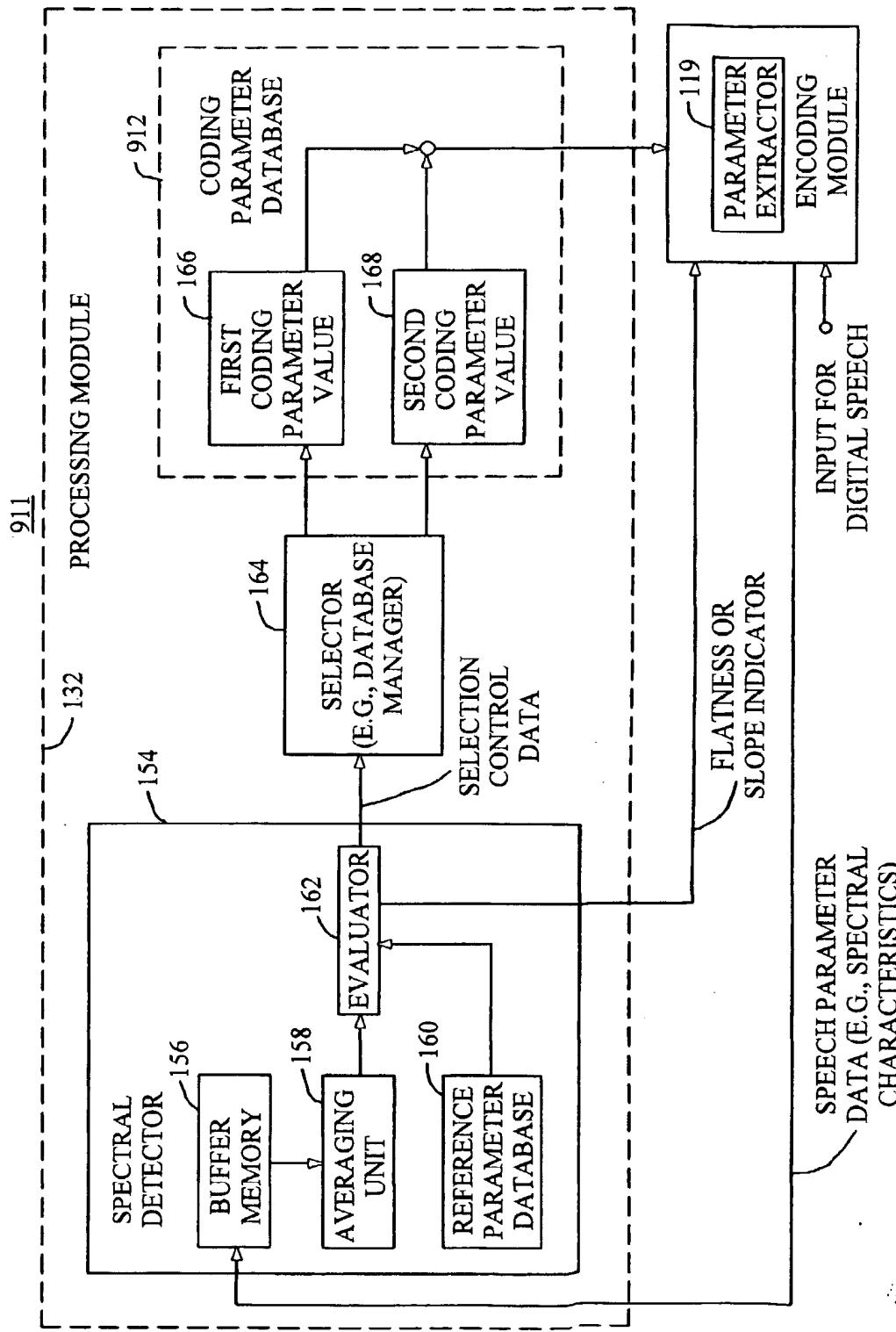


FIG. 3

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S10

ASSUME THE SPECTRAL RESPONSE OF A SPEECH SIGNAL IS SLOPED IN ACCORDANCE WITH A DEFINED CHARACTERISTIC SLOPE (E.G., AN MIRS SIGNAL RESPONSE).

S12

ACCUMULATE SAMPLES (E.G., FRAMES) OF THE SPEECH SIGNAL OVER AT LEAST A MINIMUM SAMPLING DURATION (E.G., 2-4 SECONDS).

S14

AVERAGE THE ACCUMULATED SAMPLES ASSOCIATED WITH THE MINIMUM SAMPLING DURATION TO OBTAIN AN AVERAGED REPRESENTATIVE SAMPLE.

S16

COMPARE THE AVERAGED REPRESENTATIVE SAMPLE TO REFERENCE DATA IN A REFERENCE DATABASE OF SPECTRAL CHARACTERISTICS, INCLUDING AT LEAST ONE OF THE DEFINED CHARACTERISTIC SLOPE AND A FLAT SPECTRAL RESPONSE.

S18

DOES A SLOPE OF THE REPRESENTATIVE SAMPLE OF THE SPEECH SIGNAL CONFORM TO THE DEFINED CHARACTERISTIC SLOPE AS DETERMINED BY THE COMPARISON?

YES

NO

S20

SELECT AT LEAST ONE FIRST CODING PARAMETER VALUE ASSOCIATED WITH THE DEFINED CHARACTERISTIC SLOPE.

S21

APPLY THE AT LEAST ONE FIRST CODING PARAMETER VALUE TO CODING OF THE SPEECH SIGNAL.

IS THE SPECTRAL RESPONSE OF THE REPRESENTATIVE SAMPLE OF THE SPEECH SIGNAL GENERALLY FLAT AS DETERMINED BY THE COMPARISON?

S23

YES

NO

SELECT AT LEAST ONE SECOND CODING PARAMETER VALUE ASSOCIATED WITH THE FLAT SPECTRAL RESPONSE.

APPLY THE AT LEAST ONE SECOND CODING PARAMETER VALUE TO CODING OF THE SPEECH SIGNAL.

S24

S26

END

FIG. 4

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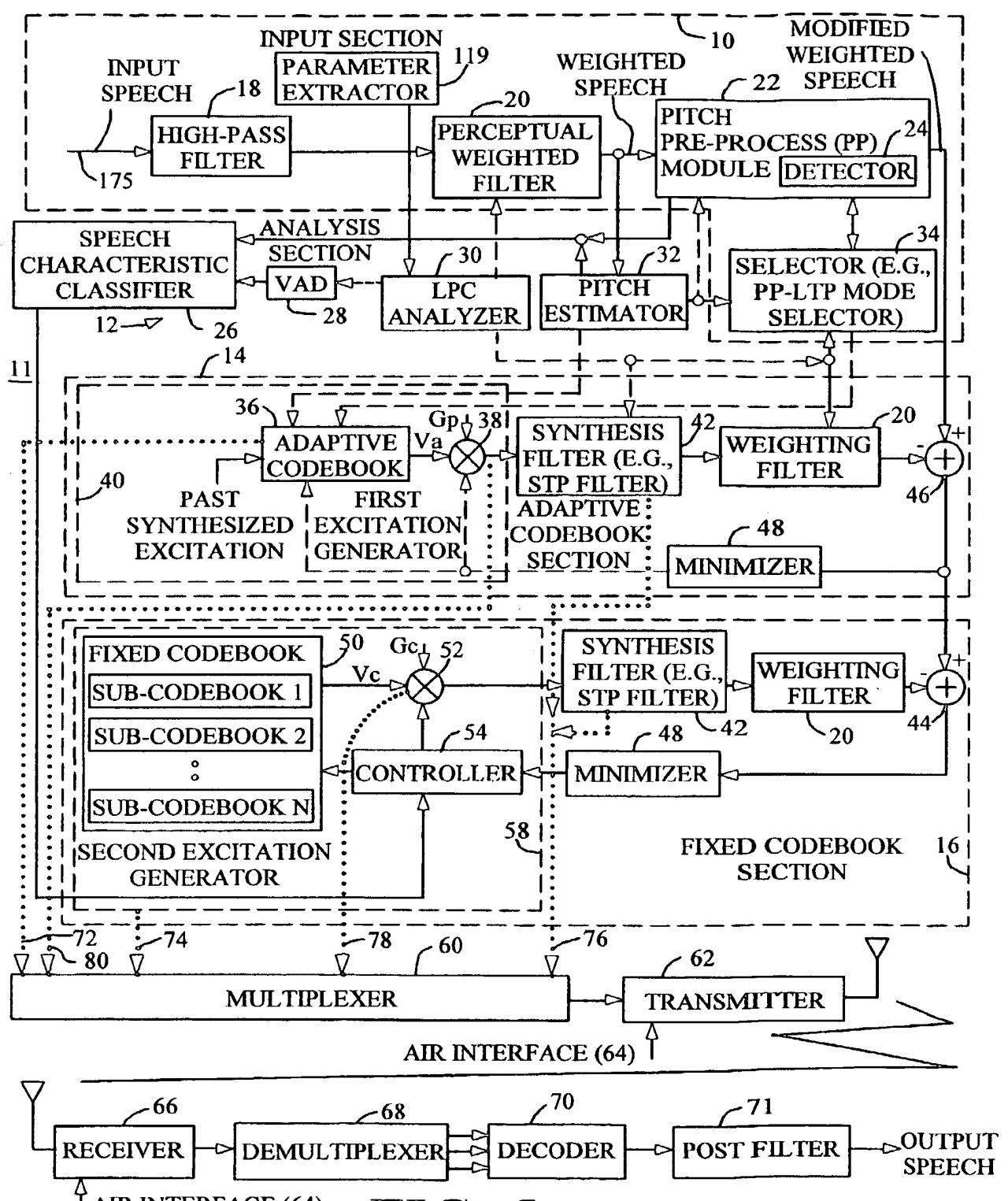


FIG. 5

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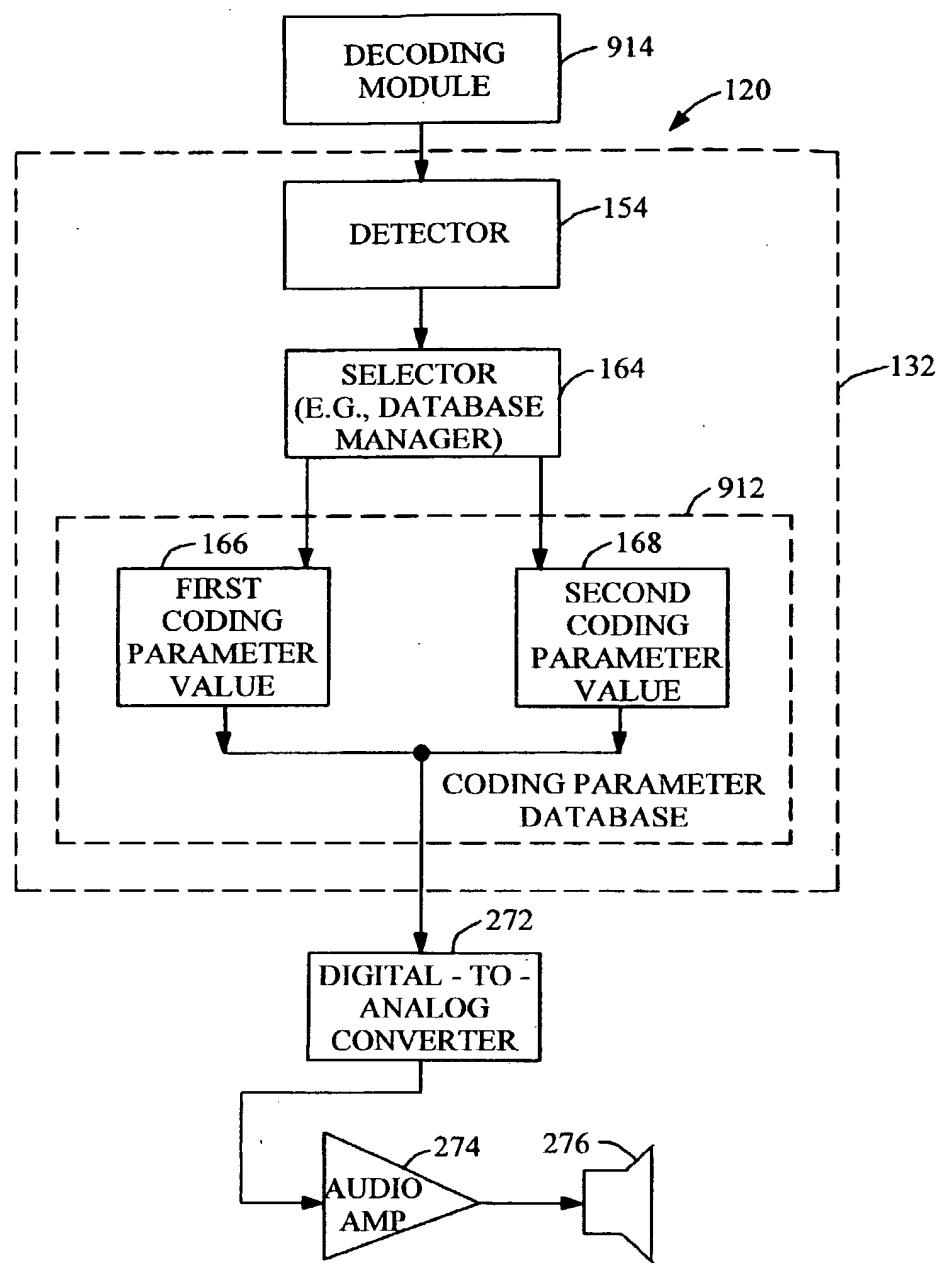


FIG. 6

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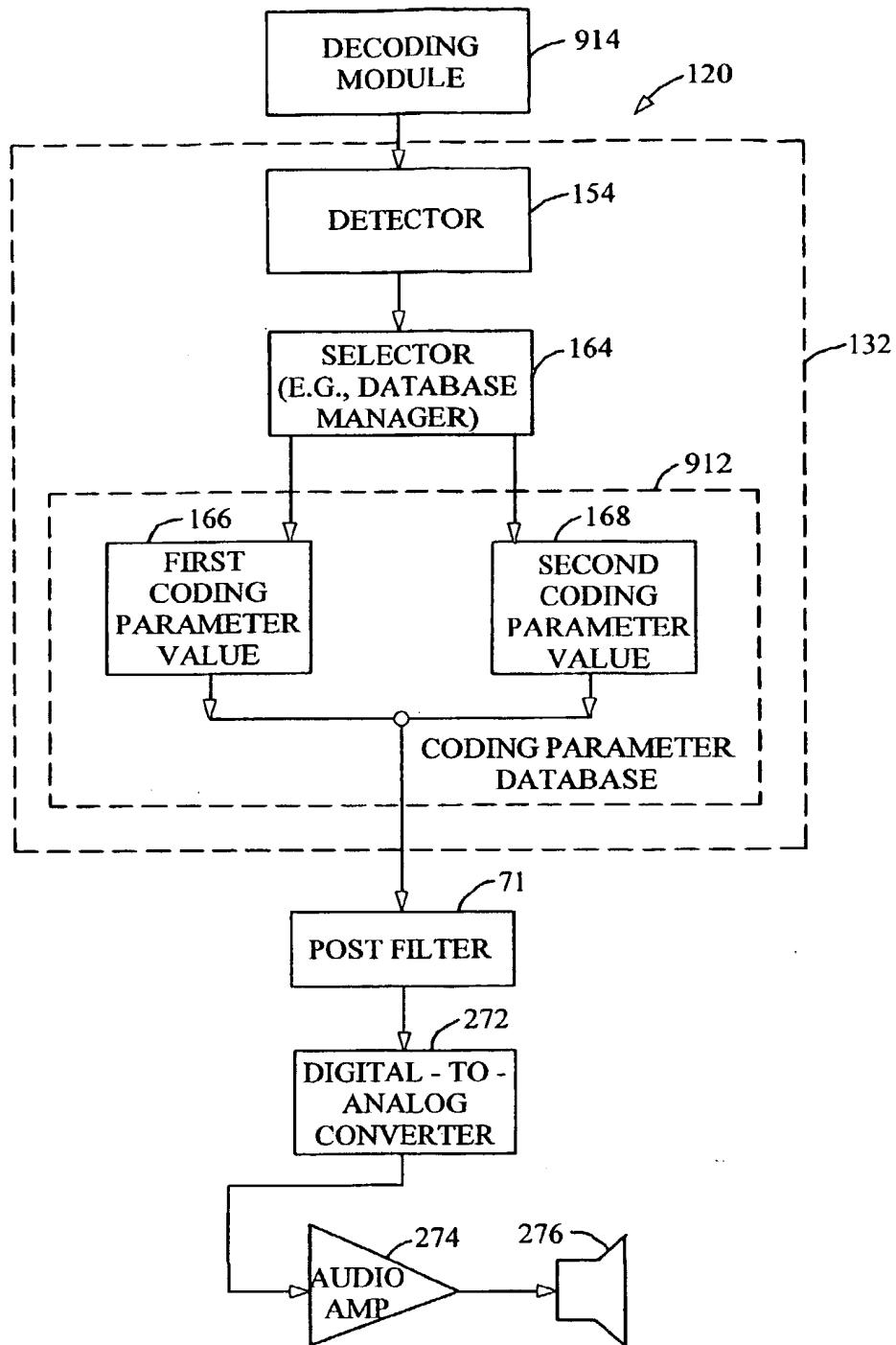


FIG. 7